CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
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QC ABSTRACT

Nameof Work:Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Materials	–	1	1	Cement Sand, Aggregates	One Test Per Lot
2	Steel	1.2 Tonne	1	1	-	-
3	M15	12.94Cum	2	2	Concrete Cube Compressive Strength	-
4	M25	11.92Cum	2	2	Concrete Cube Compressive Strength	-
5	CC Blocks (400x150x200)	133.73 Sqm	1	1	Compressive Strength& Bulk density	-
6	CPVC Pipe	140Mtr	1	1	-	-
7	PVC Pipe	249Mtr	1	1		-

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

Job No.: CACE/BBMP/IC/W.No.14/2022-23 Date: 17.09.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Dasarahalli** Sub Division, BBMP, Bangalore.
AGENCY	:	**M/S Inchara Construction(Prop.Shanthakumar P),** Contractor, Bangalore.
NAME OF THE WORK	:	Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.
SAMPLE ID	:	Cement (BirlaOPC 53 Grade)
DATE OF MANUFACTURE		August-2022
DATE OF TESTING		15.09.2022 to 17.09.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date : 17.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of Work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Date of Testing : 17.09.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	87	8.70	8.70	91.3	90-100
2.36	139	13.90	22.60	77.4	75-100
1.18	186	18.60	41.20	58.8	55-90
600 Micron	167	16.70	57.90	42.1	35-59
300 Micron	227	22.70	80.60	19.4	8-30
150 Micron	145	14.50	95.10	4.9	0-10

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date : 17.09.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of Work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Date of Testing : 17.09.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	195	3.9	3.9	96.1	95-100
10	2485	49.7	53.6	46.4	25-55
4.75	1951	39.0	92.6	7.4	0-10

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date : 17.09.2022

TEST REPORT ON COARSE AGGREGATES

nt : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

ncy :**M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

me of Work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

te of Testing : 17.09.2022

Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

aterial : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	187	1.25	1.25	98.75	95-100
20	8237	54.91	56.16	43.84	30-70
10	3270	21.80	77.96	22.04	10-35
4.75	2801	18.67	96.63	3.37	0-5

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Job No.: CACE/BBMP/IC/W.No.14/2022-23 Date 17.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.

Name of Work Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Date of Testing 17.09.2022

Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	25	2.50	2.50	97.5	95-100
2.36	31	3.10	5.60	94.4	95-100
1.18	59	5.90	11.50	88.5	90-100
600 Micron	75	7.50	19.00	81.0	80-100
300 Micron	265	26.50	45.50	54.5	20-65
150 Micron	505	50.50	96.00	4.0	0-15

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TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of Work :Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Date of Testing : 17.09.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	20	2.00	2.00	98.0	90-100
1.18	45	4.50	6.50	93.5	70-100
600 Micron	95	9.50	16.00	84.0	40-100
300 Micron	251	25.10	41.10	58.9	5-70
150 Micron	500	50.00	91.10	8.9	0-15

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Job No.: CACE/BBMP/IC/W.No.14/2022-23 Date : 17.09.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Name of Work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

AGENCY **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Steel Dia/Length : 8mm,10mm,12mm,16mm" Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 17.09.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	553	640	1.16	14
2	TMT	10	0.621	561	654	1.17	14.5
3	TMT	12	0.891	573	663	1.16	14.5
3	TMT	16	1.58	573	672	1.17	14.5

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Job No.: CACE/BBMP/IC/W.No.14/2022-23 20.09.2022

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of Work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample Supplied by : AGENCY

BIS Code : IS 4985:2000

Sample Identification : PVC pipe 63mm dia

Date of Testing : 20.09.2022

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	63.00	63.0 mm
2	Mean Outside Diameter (mm)	63.40	Min 63.0mm Max 63.8 mm
3	Outside Diameter at Any Point (mm)	65.1	Min 61.0 mm Max 66.0 mm

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date : 19.09.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client :**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the Work :Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Date of Testing : 19.09.2022

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

SLNo.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	23.5	240.8	4.01	1958.33	Minimum required Compressive Strength of Individual Units $4N/mm^2$
2	Block 2	23.6	242.5	4.04	1966.67	
3	Block 3	23.8	245.1	4.09	1983.33	
4	Block 4	23.7	244.7	4.08	1975.00	

Note:

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Srikanth. S C.

Authorised Signatory

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Job No.: CACE/BBMP/IC/W.No.14/2022-23 20.09.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of Work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 25mm dia

Date of Testing 20.09.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	28.5	28.6 mm
2	Mean Outside Diameter (mm)	28.5	Min 28.5 mm Max 28.7 mm
3	Outside Diameter at Any Point (mm)	28.60%	Min 28.4 mm Max 28.8 mm
4	Density	1485 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

20.09.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of Work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 25mm dia

Date of Testing 20.09.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	28.5	28.6 mm
2	Mean Outside Diameter (mm)	28.5	Min 28.5 mm Max 28.7 mm
3	Outside Diameter at Any Point (mm)	28.60%	Min 28.4 mm Max 28.8 mm
4	Density	1485 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date: 26.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.09.2022	26.09.2022	8.188	396.5	17.62
2	19.09.2022	26.09.2022	8.196	405.2	18.01
3	19.09.2022	26.09.2022	8.165	418.9	18.62

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For CIVIL AIM CONSULTANTS & ENGINEERS

Sukanth. S. C

Authorised Signatory

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date: 26.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.09.2022	26.09.2022	8.188	396.5	17.62
2	19.09.2022	26.09.2022	8.196	405.2	18.01
3	19.09.2022	26.09.2022	8.165	418.9	18.62

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For CIVIL AIM CONSULTANTS & ENGINEERS

Srikanth. S. C

Authorised Signatory

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/IC/W.No.14/2022-23 Date: 17.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**
Name of the work	: Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.09.2022	17.10.2022	8.205	606.3	26.95
2	19.09.2022	17.10.2022	8.188	616.8	27.41
3	19.09.2022	17.10.2022	8.191	626.4	27.84

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Srikanth. S. C.

Authorised Signatory

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date: 26.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.09.2022	26.09.2022	8.184	395.6	17.58
2	19.09.2022	26.09.2022	8.169	405.2	18.01
3	19.09.2022	26.09.2022	8.152	418.9	18.62

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date: 17.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.09.2022	17.10.2022	8.198	616.2	27.39
2	19.09.2022	17.10.2022	8.165	629.3	27.97
3	19.09.2022	17.10.2022	8.142	635.2	28.23

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date: 28.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.09.2022	28.09.2022	8.156	284.5	12.64
2	21.09.2022	28.09.2022	8.138	279.6	12.43
3	21.09.2022	28.09.2022	8.146	268.5	11.93

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Job No.: CACE/BBMP/IC/W.No.14/2022-23 Date: 19.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.09.2022	19.10.2022	8.198	388.9	17.28
2	21.09.2022	19.10.2022	8.165	379.6	16.87
3	21.09.2022	19.10.2022	8.176	368.2	16.36

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Job No.: CACE/BBMP/IC/W.No.14/2022-23

Date: 29.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.09.2022	29.09.2022	8.158	275.2	12.23
2	22.09.2022	29.09.2022	8.165	278.9	12.40
3	22.09.2022	29.09.2022	8.148	281.2	12.50

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Job No.: CACE/BBMP/IC/W.No.14/2022-23 Date: 20.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**M/S Inchara Construction(Prop.Shanthakumar P), Contractor, Bangalore.**

Name of the work : Maintenance and Repairs of borewell in Sidedahalli village at Bagalagunte ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.09.2022	20.10.2022	8.146	380.6	16.92
2	22.09.2022	20.10.2022	8.141	371.3	16.50
3	22.09.2022	20.10.2022	8.171	382.2	16.99

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